//Load holiday list

Data:

first 1 LOAD

\*

FROM [lib://SRT\_Data\_file/Bank holidays and privilege until 2027.xlsx]

(ooxml, embedded labels, table is Sheet1);

// loop through field list

for i=1 to NoOfFields('Data')

New:

Load FieldName($(i),'Data') as Field\_List

AutoGenerate 1;

Next

Drop Table Data;

//load valid years from field list

Field\_List:

NoConcatenate

Load Field\_List

Resident New

where wildmatch(Field\_List,'20\*');

Drop Table New;

// load max year

MaxYear:

Load max(Field\_List) as MaxYear

Resident Field\_List;

Holiday:

Load \* Inline [

temp ];

// loop through field list values to generate holiday dates

for i=1 to FieldValueCount('Field\_List')

let vFieldName = chr(34)&FieldValue('Field\_List',$(i))&chr(34);

Concatenate(Holiday)

Load date($(vFieldName)) as Holiday

FROM [lib://SRT\_Data\_file/Bank holidays and privilege until 2027.xlsx]

(ooxml, embedded labels, table is Sheet1);

Next

Drop Field temp;

Drop Table Field\_List;

// Generating Financial calendar

SET vFiscalYearStartMonth = 4;

LET vStartDate = floor(MakeDate(2008));

LET vEndDate = floor(YearEnd(makedate(Peek('MaxYear',0,'MaxYear'))));

Drop Table MaxYear;

FiscalCalendar:

LOAD

\*,

num(ceil(DayOfYear/7),'00') as [Week Number], // Fiscal week number

num(ceil([Month Number]/3),'00') as [Quarter Number],

dual('Quarter '&ceil([Month Number]/3)&' '& Year,num(ceil([Month Number]/3),'00')&[Calendar Year]) as [Quarter Name], // Fiscal Calendar Quarter

Dual(Text(Date(MonthEnd(Date), 'MMM')), [Month Number]) AS Month; // Fiscal Calendar Month

LOAD

\*,

date(monthstart(Date),'MMM YYYY') as [Month Name],

weekday(Date) as [Day Name],

if(Match(weekday(Date),'Sat','Sun'),1,0) as Weekend\_flag,

num(Day(Date),'00') as [Day Number],

if(month(Date)=4 and day(Date)=1,1,rangesum(1,peek(DayOfYear))) as DayOfYear,

Year(Date) as [Calendar Year],

num(Mod(Month(Date) - $(vFiscalYearStartMonth), 12)+1,'00') AS [Month Number], // Fiscal Calendar Month

YearName(Date, 0, $(vFiscalYearStartMonth)) AS Year; // Fiscal Calendar Year

Load date($(vStartDate)+IterNo()-1) as Date,

1 as IsFiscalCalendar

AutoGenerate 1

While $(vStartDate)+IterNo()-1 <= $(vEndDate);

Drop Fields DayOfYear,[Calendar Year];

// generate week start and week end date

Left Join(FiscalCalendar)

Load Year,

[Week Number],

date(min(Date)) as [Week Start Date],

date(max(Date)) as [Week End Date]

Resident FiscalCalendar

Group by Year,[Week Number];

//Generating Calendar

Calendar1:

NoConcatenate

Load \*,

weekday(Date) as [Day Name],

if(Match(weekday(Date),'Sat','Sun'),1,0) as Weekend\_flag,

num(Day(Date),'00') as [Day Number],

num(week(Date),'00') as [Week Number],

date(WeekStart(Date)) as [Week Start Date],

date(WeekEnd(Date)) as [Week End Date],

num(month(Date),'00') as [Month Number],

month(Date) as Month,

date(monthstart(Date),'MMM YYYY') as [Month Name],

num(ceil(Month(Date)/3),'00') as [Quarter Number],

dual('Quarter '&ceil(Month(Date)/3)&' '&year(Date),num(ceil(Month(Date)/3),'00')&year(Date)) as [Quarter Name],

year(Date) as Year;

Load date($(vStartDate)+IterNo()-1) as Date,

0 as IsFiscalCalendar

AutoGenerate 1

While $(vStartDate)+IterNo()-1 <= $(vEndDate);

// append fiscal calendar to create single table

Concatenate(Calendar1)

Load \*

Resident FiscalCalendar;

Drop Table FiscalCalendar;

Left Join(Calendar1)

Load Distinct Holiday as Date,

1 as Holiday\_Flag

Resident Holiday;

Drop Table Holiday;

Calendar:

NoConcatenate

Load \*,

if(Holiday\_Flag=1 or Weekend\_flag=1,0,1) as [Working Day Indicator]

Resident Calendar1;

Drop Table Calendar1;

Drop Fields Holiday\_Flag,Weekend\_flag;

Store Calendar into lib://Shared\_qvd/Calendar.qvd;